

08100: METAL DOORS AND FRAMES

FRAMES

Type: Fully welded conforming to ANSI /SDI-100 Standard. Knock-down frames are acceptable for inner office locations and on renovation projects.

Grouted or poured in place frames shall have mortar boxes for hardware.

Header Reinforcing: Building entrance and restroom frames to receive full closer 14 gage steel channel reinforcement, all other frames to receive 14 gage sleeve.

Frames at exterior openings and interior openings 4 feet wide and wider shall be 14 gage.

Exterior frames shall be galvanized.

Except as otherwise required for fire rating and by size of opening, frames at interior openings shall be 16 gage.

Provide 3 silencers for each single door and 2 at head of pairs of doors except at frames with weatherstripping, smoke, or sound seals.

Fire-rated frames shall be scheduled with required rating indicated.

DOORS

Type: Flush, conforming to ANSI /SDI-100 Standard, Grade II, Model 2 (Seamless) Heavy-duty, except as modified by these Standards.

Face Sheets: 16 gage for all exterior doors, and interior doors 4 feet wide and wider.

Exterior doors, restroom doors and animal lab doors shall be galvanized.

Reinforce doors for finish hardware in accordance with referenced ANSI/SDI Standard modified as follows:

Hinges: 1-1/2 inch steel plate 6 inches longer than hinge and secured with not less than 6 spot welds.

Surface-Applied Closers: All metal doors shall be reinforced for closers.

Required Clearances: In accordance with ANSI/SDI Standard except as follows.

Non Fire-Rated Doors:

- Jambs and Head: 3/32 inch.
- Meeting Edges at Pairs of Doors: 1/8 inch.
- Bottom: 3/8 inch there is no threshold or carpet, 1/8 inch at thresholds or carpet.

Glazing Beads:

- Type: Screw on, 1/2 inch by 1/2 inch by 14-gage steel channels, factory installed and secured with countersunk, flat head, machine screws at 6-inches on center.
- Corners shall be mitered.
- Fixed frame stops shall be securely welded to the door on the secure side.

Louvers:

- Locate factory-prepped louvers a minimum 12 inches above finish floor.
- Design: Inserted, welded, siteproof, with mitered frame.

Finishes, General:

- Comply with NAAM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for cleaning, treating, priming, and when specified, finishing,

Steel Sheet Finishes:

- Surface Preparation: Clean surfaces to comply with SSPC-SP 1, "Solvent Cleaning"; remove dirt, oil, grease, or other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel, complying with SSPC-SP 3, "Power Tool Cleaning," or SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
- Factory Priming for Field-Painted Finish: Apply shop primer specified in Division 9 Sections "Painting" and "High-Performance Coating" for exterior doors and frames, immediately after surface preparation and pretreatment. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 0.7 mils.

INSTALLATION OF STEEL DOORS AND FRAMES

Frames shall be installed in accordance with SDI Standard 105.

Field cutting for hardware and other modifications is not permitted.

Coat inside of frames and anchors with asphaltic paint where frames are set in masonry walls and are to be grout filled.

END OF 08100